

The lobopod *Onychodictyon* from the Lower Cambrian Chengjiang Lagerstätte revisited

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Acta Palaeontologica Polonica 53 (2), 2008: 285-292 doi:<http://dx.doi.org/10.4202/app.2008.0209>

Onychodictyon ferox, from the Lower Cambrian Chengjiang Lagerstätte, is a worm-like armored lobopod with 10 pairs of dorsal plates and a pair of probable sensory appendages (“antennae”). Newly discovered complete specimens show that *Onychodictyon* is represented by two species: *O. ferox* with a “head” bearing a pair of dorsal “antennae” and a trunk with 11 pairs of limbs, whereas *O. gracilis* has a blunt anterior end without any appendages and a trunk with 12 pairs of limbs. Because of the close resemblance of the “antennae” of *O. ferox* and those of the lobopod *Miraluolishania*, they are considered to be homologous structures. The “antennae” of Cambrian lobopodians are proposed to be homologous with the arthropod antennulae.

Key words: Lobopodia, Arthropoda, antennae, Cambrian, Chengjiang Lagerstätte, Yunnan

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